

NFPA 72 & Elevators

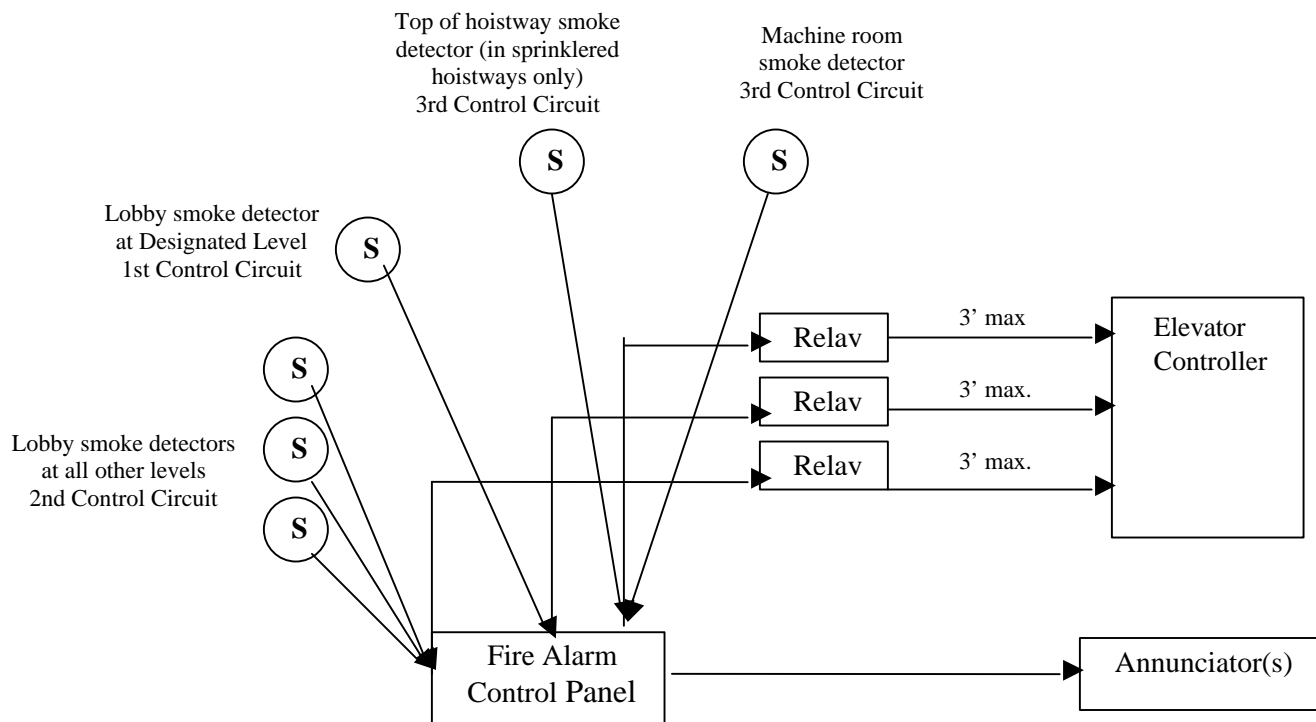
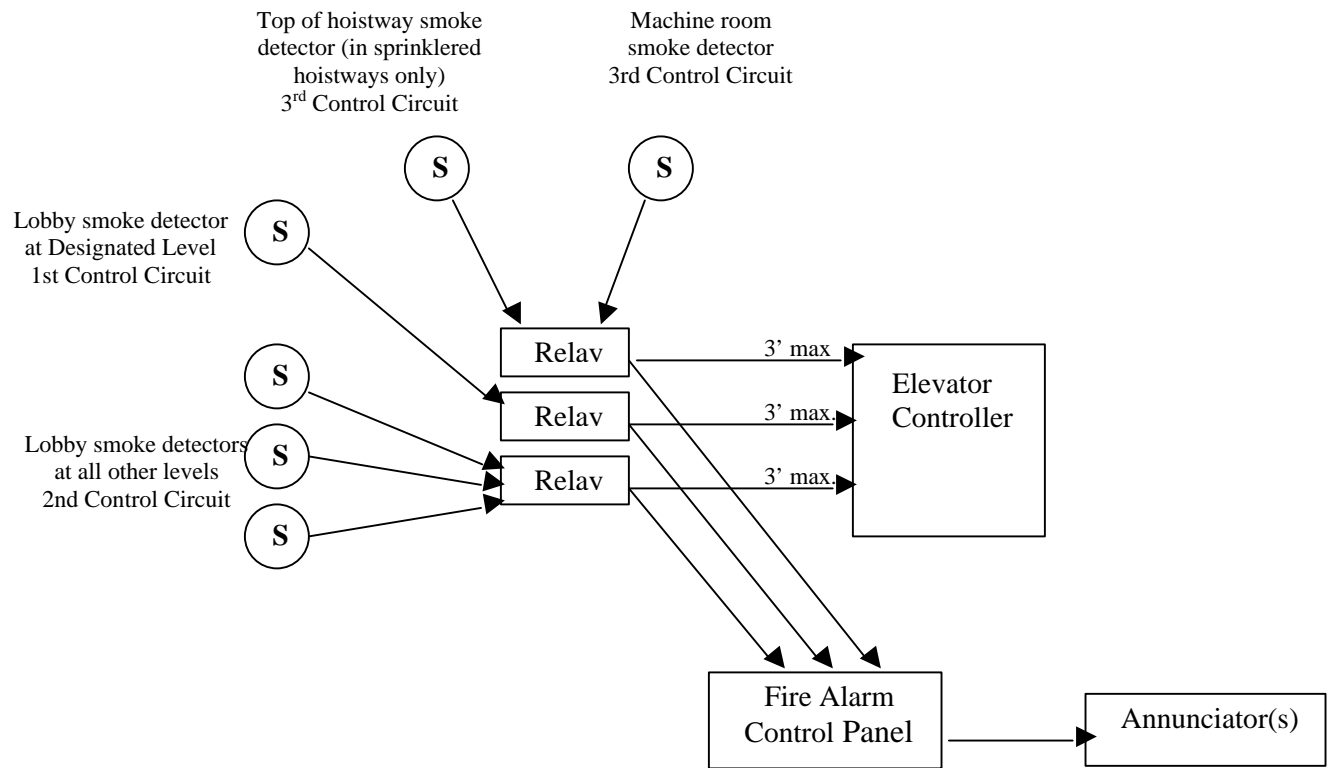
Elevator Recall for Fire Fighters' Service

3-9.3.1	System type smoke detectors shall be connected to the building fire alarm system. In buildings without a fire alarm system the detectors shall be connected to a dedicated fire alarm system control unit and shall be designated "elevator recall control and supervisory panel" permanently identified on the control unit and the record drawings.
1-5.6	If the fire alarm system control unit is located in an area not continuously occupied automatic smoke detection shall be provided at that location.
3-9.3.6	When actuated, each elevator lobby, elevator hoistway, and elevator machine room smoke detector shall initiate and alarm condition on the building fire alarm system and shall visibly indicate, at the control unit and required remote annunciators, the alarm initiation circuit or zone from which the alarm originated.
3-9.3.6	Actuation from elevator hoistway and/or elevator machine room smoke detectors shall cause separate and distinct visible annunciation at the control unit and required annunciators to alert the fire fighters and other emergency personnel the elevators are no longer safe to use.
3-9.3.7	For each group of elevator's within a building, three separate elevator control circuits shall be terminated at the designated elevator controller within the group's elevator machine room(s).
3-9.3.7(a)	The smoke detector located in the designated elevator recall lobby shall actuate the first elevator control circuit. The smoke detector shall be located within 15ft. of the elevator hoistway door. Comm. 18.31(2)
3-9.3.7(b)	The smoke detectors in the remaining elevator lobbies shall actuate the second elevator control circuit. The smoke detector shall be located within 15ft. of the elevator hoistway door. Comm. 18.31(2)
3-9.3.7(c)	The smoke detectors in elevator hoistways and/or elevator machine room(s) shall actuate the third elevator control circuit. In addition, if the elevator machine room is located at the designated level, its smoke detector shall also actuate the first elevator control circuit.
3-9.2.1	A listed relay or other listed appliance connected to the fire alarm system used to initiate control of protected premises fire safety functions shall be located within three feet of the controlled circuit or appliance.

Elevator Shutdown

3-9.4.1	Where heat detectors are used to shut down elevator power prior to sprinkler activation, the detector shall have both a lower temperature rating and a higher sensitivity as compared to the sprinkler. A sprinkler head rated at 212deg. and a heat detector rated at 135 deg. is recommended.
3-9.4.2	Heat detectors used to shut down elevator power prior to sprinkler operation shall be placed within 2ft. of each sprinkler head.
3-9.4.4	Control circuits to shut down elevator power shall be monitored for presence of operating voltage. Loss of voltage to the control circuit for the disconnecting means shall cause a supervisory signal to be indicated at the control unit and required annunciators.

Fire Fighters Recall



Elevator Shut Down

